51-2-11/15

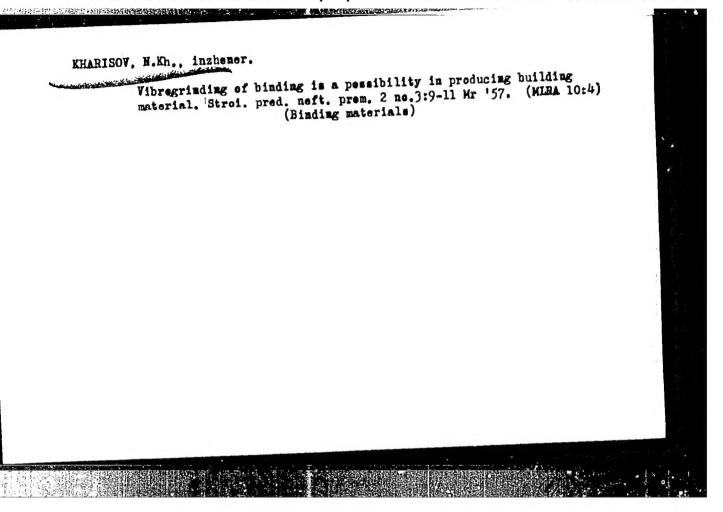
AUTHORS: Vertaner, V.N., Degteva, L.V. and Kharionovskiy, Yu.S. TITLE: A method of observation of the diffraction-grating profile using electron microscope. (Sposob nablyudeniya profilya diffraktsionnykh reshetok v elektronnom mikroskope)

PERIODICAL: "Optika i Spektroskopiya" (Optics and Spectroscopy)

1957, Vol.3, No.2, pp.181-183 (U.S.S.R.)
ABSTRACT: Both glass and aluminium diffraction gratings were studied. For glass gratings a thin silver replica was prepared by vacum deposition; this was strengthened by an electrodeposited copper layer 0.01-0.02 mm thick. The grating and the replica were separated in distilled water. For aluminium gratings doublereplica technique was used. First a naproduoh (parlodion) replica was prepared, using a 5% solution in amyl acetate. From this a silver-copper replica, as described above, was made and parlodion dissolved off in amyl acetate. The replicas were bent at right angles to the diffraction grooves and the profile photographed using an electron microscope. The results are shown in Fig.1 (glass diffraction-grating profile, 50 lines/mm, magnif. X 4000) and Fig. 2a (aluminium grating profile, 1200 lines/mm, magnif. not stated). Fig. 2b shows superposition of the profile of Fig. 2a onto a microphotograph of the replica. This profile study is useful in investigation of the effect of groove-cutter shape and load. It can be also used to study polished surfaces:

Card 1/2

USSR/Medicine - Veterinary,  Brucellosis  "Diagnosis of Burcellosis in Dogs with Brucellohy- drolysate of the All-Union Institute of Experimental Chief Vet Admm, Min Agr and Supplies, Grorgian SSR Veterinarya, Vol 30, No 9, pp 20-23  Tests on dogs with VIEV brucellohydrolysate demonstrated its specificity in diagnosing brucellosis.  Tented its specificity in diagnosing brucellosis. taneously with 0.2cc of physiol sol did not produce serious allergic reactions. Brucellohydrolysate proved most effective if used in combination with tion reaction.  ZTOTTT  ZTOTTT	Sel <b>a a co</b> e a an ar a	m	)	O STATE OF		<u>STANCES A</u>		,	nik	
"Diagnosis of Burcdrolysate of the Avertinary Medicin Chief Vet Admn, Milver Neterinariya, Vol Tests on dogs with strated its specificaneously with 0.2 taneously with 0.2 tenction of agglutition reaction.		18	ellosis in Dogs with Brucellohy- ll-Union Institute of Experimental e (VIEV)," I. S. Kharischarishvill, n Agr and Supplies, Georgian SSR	30, No 9, pp 20-23	VIEW brucellohydrolysate demon- icity in diagnosing brucellosis. tion of 0.2cc of the drug simul- ic of physiol sol did not produce	270177	Brucellohydrolysed in combination of with complement		270rT7	
· ·	-		"Diagnosis of Burcdrolysate of the AVeterinary Medicin Chief Vet Admn, Mi	Veterinariya, Vol	Tests on dogs with strated its specif. Subcutaneous injectaneous with 0.2		serious allergic re proved most effecti reaction of aggluti tion reaction.			



ENT(1)/T JK ئب-ئديت ACC NR. AP6019094 (A.H) SOURCE CODE: UR/0346/66/000/002/0037/0039 AUTHOR: Kharisov, Sh. Kh.; Sakharova, R. V.; Abuzarov, Yu. Sa. 30 ORG: Kazan' Voterinary Institute (Kazanskiy veterinarnyy institut) 8 TITLE: Aerogenic method of immunizing cattle against brucellosis b SOURCE: Votorinariya, no. 2, 1966, 37-39 TOPIC TAGS: immunization, brucellosis, immunity, commercial animal, vaccine ABSTRACT: The authors conducted a comparative study of the antigenic and immunogenic properties of Brucella bovis vaccines administered by the aerogenic and subcutaneous methods. The aerogenic method (dosage: 32.4 billion microbe bodies) was harmless for young cattle and produced immunity as stable as that of the subcutaneous method. With both methods immunity was less durable with Strain 62 than with Strain 19. The aerogenic method can be used to vaccinate cattle in sheds if cracks are stopped up and a concentration of vaccine is created that allows the animals to breathe in 32-35 billion microbe bodies in 45 minutes of erposure. [JPRS] SUB CODE: 06 / SUEM DATE: TOPO / Card 1/1 2C UDC: 619.616.981.42-085-37:636.2

SMIRROY, A.D.; KHARISOV, Sh. Kh., kand.veterinarnykh nauk

Kazan Veterinary Research Institute. Trudy VIEV 23:324-330 159.

(HIRA 13:10)

(Kazan--Veterinary research)

CHEPUROV, K.P., prof.; ARKHANGEL'SKIY, I.I., prof.; SHATOKHIN, N.G., dotsent; VERESHCHAGIN, M.N., prof., zasluzhennyy deyatel\* nauki Tatarskoy ASSR; AEDULLIN, Kh.Kh., dotsent; KIVALKINA, V.P., dotsent; KHARISOV, Sh.Kh., starshiy nauchnyy sotrudnik

"Veterinary microbiology" by M.V. Revo and M.D. Zhukova. Reviewed by K.P. Chepurov and others. Veterinaria 37 no.7:87-89
Jl '60. (MIRA 16:2)

1. Kazakhskiy nauchno-issledovatel skiy veterinarnyy institut (for Kharisov).

(Veterinary microbiology)

GABBASOVA, M.A.; KHARISOVA, A.Sh.

Effect of hemosporidin (LP) on heart innervation in frogs. Uch.zap.
Kaz.un. 116 no.5:181-184 2 56. (MLRA 10:4)

. (Heart--Innervation) (Veterinary materia medica and pharmacy)

## KHARISOVA, A. Sh.

Cand Biol Sci - (diss) "Effect of the central nervous system on the rate of conduction of stimulation in the nerve." Kazan', 1961. 17 pp; (Ministry of Agriculture USSR, Kazan' Veterinary Inst); 150 copies; price not given; author designated on cover; (KL, 5-61 sup, 185)

# KHARISOVA, A.Sh.

Influence of the central nervous system on the conduction rate of excitation in a peripheric nervo. Report No.2. Nauch. dokl. vys. shkoly; biol. nauki no.2:87-92 '61. (MIRA 14:3)

 Rekomendovana kafedroy fiziologii cheloveka i zhivotnykh Kazanskogo gosudarstvennogo universiteta im. V.I.Ul!yanova-Lenina. (NERVES, PERIPHERAL)

KHARIT, M.	9 <b>5</b> 5 5	- 雑にさせの知。ほ	PA 38/49173	
J8/#	USER/Engineering (Contd)  Jan/Mar 49 tailings of asbestos-cement production in Mosco "Izoplita" Factory. Graphs thow hygroscopic water absorption and frost-resisting properties of asbestos-cement blocks.	"Kholodii Tekh" No F  Heat insulation fills (slag and others) of bo  (pressboard, etc.) in use at present in  refrigerator construction do not satisfy even minimum insulation requirements. Discusses use of asbestoe-cement insulation, made from 38/49175	UBSR/Engineering Jan/Mar Insulating Materials Insulation, Thermal "Asbestos-Cement Insulating Blooks," A. Kro Chief Engr, Tsentromaslostroy, M. Kharit, Ca	
38/4 <b>917</b> 7	in Mossow icopic coperties	of boards even from from	Mar 19 Erotor, Cand	

AUTHORS: Shpital'nyy, A. S., Kharit, Ya. A.

S07/156-58-3-36/52

TITLE:

On the Composition of the Salts Formed by Dicarboxylic Acids With Diaminos and Hydrazine (O sostave soley, obrazovannykh dikarbonovymi kislotami s diaminami i gidrazinom)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp. 542 - 544 (USSR)

ABSTRACT:

The salts formed under the interaction of aelaic, sebacic, and adipic acids with hexamethylene and ethylene diamine were investigated. It was found that the molecular ratio hydrazine:dicarboxylic acid = 1:1, 1:2 salts are formed having constant composition, in which the ratio of the components is 1:1. In the case of an excess of hydrazine, salts are formed in which the ratio hydrozine:acid = 2:1. By potentiometric titrations of the solutions of these salts it was found that these compounds are acid salts. Salts of dicarboxylic acid with hydrasine and

diamine differ, and this difference has an effect on the

formation of polyamide resins from these compounds. There are

1 figure and 13 references, 4 of which are Soviet.

Card 1/2

On the Composition of the Salts Formed by Dicarboxylic Acids With Diamines and Hydrazine

S07/**156-**58-3-36/52

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ASSOCIATION:

Kafedra iskusstvennogo volokna Leningredskogo tekstil'nogo instituta im.S.M.Kirova (Chair for Synthetic

Fibers at the Leningrad Textile Institute; imeni S.M.Kirov)

SUBMITTED:

March 22, 1958

Card 2/2

### "APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721810019-2

AUTHORS:

Shpital'nyy, A. S., Kharit, Ya. A.

507/79-28-10-13/60

TITLE:

On the Formation Process of the Polyamide Resins

(O protsesse obrazovaniya poliamidnykh smol)

VII. On the Composition and the Structure of the Salts Formed

From Dicarboxylic Acids and Diamines, or Hydrazine

(VII. O sostave i stroyenii soley, obrazovannykh dikarbonovymi

kislotami i diaminami ili gidrazinom)

PERICDICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 10, pp 2687-2693

(USSR)

ABSTRACT:

Shpital'nyy and his collaborators had found in their earlier paper (Ref 1) that salts from dicarboxylic acids and diamines of the aliphatic series are of constant composition although they may be acid or neutral, and they also found that this composition is not dependent on the ratio between the reacting components. The composition of a salt was determined by the magnitude of the ratio of the dissociation constants of the acid. If this ratio is small, neutral salts are formed, which would

otherwise be acid. These conclusions were drawn by the authors when investigating adipic, succinic and oxalic acid.

Card 1/3

They are completed by azelaic and sebacic acid in this paper.

On the Formation Process of the Polyamide Resins. SOV/79-28-10-13/60 VII. On the Composition and the Structure of the Salts Formed From Dicarboxylic Acids and Diamines, or Hydrazine

The stability of the composition of the salts from diamines and azelaic. as well as sebacic acid was found. These salts were obtained at different molar ratios of the initial products, as was the case with the other dicarboxylic acids according to reference 1. The hydrazine forms salts with sebacic acid and azelaic acid, which contain equimolecular amounts of bases and acids. Adipic and succinic acid form such salts only if there is no excess of hydrazines. Such an excess yields salts of the composition -2 mole hydrazine: 1 mole acid. It was found that the hydrazine in aqueous solutions of the salts in which there are the hydrazine and a dicarboxylic acid in equimolecular amounts behaves like a monovalent base. The composition of the polyamide resins formed from the dicarboxylic acids and diamines or hydrazine apparently depends on the magnitudes of the dissociation constants of the initial products according to the compositions of the salts of the corresponding compounds. The 3 tables contain the composition and structure of the salts formed from the components mentioned. There are 1 figure, 3 tables, and 16 references, 4 of which are Soviet.

Card 2/3

On the Formation Process of the Polyamide Resins. SOV/79-28-10-13/60 VII. On the Composition and the Structure of the Salts Formed From Dicarboxylic Acids and Diamines, or Hydrazine

ASSOCIATION: Leningradskiy tekstil nyy institut (Leningrad Tortile Institut

SUBMITTED: October 26, 1957

Card 3/3

\$/080/60/033/008/013/013 A003/A001

AUTHORS:

Shpital'nyy, A.S., Kharit, Ya.A., Sokolovskiy, M.A.

TITE:

The Production of Modified Polymers on the Base of Using Polyamide

Wastes

FERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 8, pp. 1907-1908

A method was developed for producing modified polyamides from wastes based on the interaction of polyamides with those monomers, the structure of which made it possible to obtain copolymers. A mixture of the polyamide and the monomer was heated for 3 hours at 260-270°C in the autoclave in an inert medium. Polycaprolactam crumbs, polyamide wastes and polyamide articles cut of use and AT(AG) and ([(SC)) salts are the initial materials. After 3-hour heating the reaction mass is heated for 1 hour in the vacuum or at atmospheric pressure, but with a continuous supply of nitrogen into the reaction vessel. In all cases copolymers were obtained, the viscosity of which and their solubility in an alcohol-water solution did not differ from copolymers obtained from the corresponding monomers. The copolymers obtained dissolve in a hot alcohol solution. There is I table and II references: 8 Soviet, 1 English, 1 American and 1 Japanese. January 22, 1960 SUBMITTED:

Card 1/1

# **APPROVED FOR RELEASE: 09/17/2001**

83978 CIA-RDP86-00513R000721810019

s/080/60/033/009/011**/**021 A003/A001

158107

Shpital'nyy, A.S., Shpital'nyy, M.A., Kharit, Ya.A.

**AUTHORS:** TITLE:

Some Problems of Theory and Practice of Polyamide Formation

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol. 33, No. 9, pp. 2108-2112

The interaction of caprolactam with adipic, succinic and benzoic TEXT: acids or with ethylenediamine, hexamethylenediamine and aniline (Ref. 6) was investigated. The molar ratios of caprolactam: adipic acid were 1:1, 2:1, 4:1, 100:5. The interaction products with two or three structural groups had a waxlike appearance. The products with 5 structural groups were similar to hard resin. At a ratio of 1:1 the reaction runs to completion within 3 hours. Benzoic acid reacts at 240°C during long heating only with  $\frac{1}{3}$  of the caprolactam volume. The activators for the transformation of caprolactam into the polymer can be divided into two groups: activators causing only reactions of the polymerization type (carboxylic acids, organic bases and alkali agents) and activators promoting reactions of polymerization and polycondensation types (water, aminoacids). The experiments have shown that the fastest transformation of caprolactam is obtained where many compounds with functional groups having opposite

Card 1/2

S/079/60/030/010/026/030 B001/B066

158107

AUTHORS:

Shpital'nyy, A. S., Kharit, Ya. A., Chernomordik, R. B.,

and Kulakova, D. G.

TITLE:

Formation of Polyamide Resins. XI. Synthesis of

Polyamides by Interfacial Polycondensation

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 10,

pp. 3430 - 3434

TEXT: According to the interfacial polycondensation described in Ref.1, polyamides of the nylon type 66 and perlon type are now synthesized from diamines, dicarboxylic acids, or caprolactams, while polyurethans are synthesized from diisocyanates and glycols. Dicarboxylic acid is replaced by its acid chloride, and instead of diisocyanates and glycols it is possible to use the chlorocarbonic acid esters of glycols and diamines (Ref.2). Polymers of high molecular weight are quickly obtained by interfacial polycondensation at a fairly low temperature. As this method had also been used for the synthesis of polyamides, which has been earlier studied by the authors, they checked their theory of the formation

Card 1/3

Formation of Polyamide Resins. XI. Synthesis S/079/60/030/010/026/030 of Polyamides by Interfacial Polycondensation B001/B066

of polyamides through interfacial polycondensation, taking into account the effect of the structure of the initial compound on the reaction carried out. In interfacial polycondensation carboxylic acids are replaced by acid chlorides. It is to be assumed that the substitution of chlorine for the hydroxyl group of the carboxyl and the impossibility of dissociation increases considerably the electrophilic activity of the carbon atom of the carboxyl group. The smooth course of reaction at room temperature can only be explained in this way, while in other cases amidation requires high temperatures. The reaction scheme of amidation through interfacial polycondensation is not assumed to differ from the schemes given. Therefore, amidation is expected to take place according to the given scheme (Refs. 3,5). The various kinds of amidation indicate that the activity of the functional groups influences the reaction rate considerably (Refs. 3 and 4). Consequently, the mechanisms of ordinary amidation do not differ from those of the above-mentioned amidation. The low polyamide yield of interfacial polycondensation can be raised by increasing the number of carbon atoms in the acid chloride, or by replacing a linear component by a cyclic one (in certain cases, viscosity is also increased). The further investigation of the reaction

Card 2/3

Formation of Polyamide Resins. XI. Synthesis \$/079/60/030/010/026/030 of Polyamides by Interfacial Polycondensation B001/B066

course of the chain components showed that a ring OC - R - CO  $_{\rm HN}$  - R - NH

is formed in addition to the polymer. Thus, low yields of polymers are primarily do to the fact that the reaction takes place in two directions under the formation of linear polymers and low-molecular, cyclic compounds. The structure of the initial components considerably affects the polyamide yield in interfacial polycondensation. The authors mention a paper by B. A. Poray-Koshits. There are 7 references: 4 Soviet, 1 French, 2 US, and 1 Japanese.

ASSOCIATION: Leningradskiy tekstil'nyy institut (Leningrad Textile Institute)

SUBMITTED: November 12, 1959

Card 3/3

SHPITAL'NYY, A.S., KHARIT, Ya.A. CHERNOMORDIK, R.B., KULAKOVA, D.G.

Characteristics of the preparation of polyamides by means of polycondensation at the interface. Zhur.prikl.khim. 33 no.5: 1150-1154 My \*60. (MIRA 13:7)

1. Leningradskiy tekstil'nyy institut imeni S.M. Kirova. (Polyamides)

SHPITAL'NYY, A.S.; SHPITAL'NYY, M.A.; KHARIT, Ya.A.

Formation of polyamide resins from caprolactam, diamines, and dicarboxylic acids. Khim.volok. no.3:13-14 '60. (MIRA 13:7)

1. Leningradskiy tekstil'nyy institut im. Kirova. (Nylon)(Hexamethylenimine) (Amines) (Acids)

SHPITAL'NYY, A.S.; SHPITAL'NYY, M.A.; KHARIT, Ya.A.

Some aspects of the theory and practice of polyamide synthesis.

Zhur. prikl. khim. 33 no.9:2108-2112 S '60. (MIRA 13:10)

(Polyamides)

THE RESERVE OF THE PROPERTY OF

SHPITAL'NYY, A.S.; KHARIT, Ya.A.; CHEPNOMORDIK, R.B.; KULAKOVA, D.G.

Process of polyamide resin formation. Part 11: Synthesis of polyamides by means of interfacial condensation. Zhur.ob.khim. 30 no.10:3430-3434 0 161. (MIRA 14:4)

1. Leningradskiy tekstil'nyy institut.
(Polyamides)

S/080/61/034/002/016/025 A057/A129

15.8080

AUTHORS:

Shpital'nyy, A.S., Shpital'nyy, M.A., Kulakova, D.G., Kharit,

Ya.A., Sorokin, A.Ya.

TITLE:

On conditions effecting the yield, viscosity and other properties of polyamides in synthesis by the method of phase

interface polycondensation

PERIODICAL: Zhurnal Prikladnoy Khimii, v 34, no 2, 1961, 408-412

TEXT: The present paper is the 12th communication of the series "On the process of polyamide resin formation". The discussion concerning conditions for increasing yield and viscosity of polyamides obtained by phase interface polycondensation is continued and data are presented on the use of this method for syntheses of modified polyamides. The present investigations were important, since only polyamides with sufficient high molecular weights and good yield are of interest. In previous works

Card 1/6

25395 S/080/61/034/002/016/025 A057/A129

On conditions effecting the yield, ...

(Ref 3: ZhPKh, 33, -1150 (1960)) the present authors observed that the structure of the initial monomers is of particular importance for the viscosity and yield of the obtained polyamides. This was confirmed by the present experiments. It can be seen from results presented in Table 1 that the effect of concentration of initial monomers or of mixing of the components is very low, while substitution of adipylchloride by sebacylchloride sharply increases viscosity and yield of the polymer. This effect can be explained by hypotheses concerning phase interface polycondensation developed by P.W. Morgan (Ref 4: SPEJ, 15, 485 (1959)), i.e., by the diffusion of diamine from the aqueous into the organic phase where polycondensation occurs. Sebacylchloride, containing a longer molecular chain. is more hydrophobic than adipylchloride. Thus the latter diffuses much more quickly from organic into aqueous phase emerging from the reaction zone, which decreases yield and viscosity of the polyamide. Hence phase interface polycondensation using adipylchloride hardly seems reasonable. Experimental results in Table 1 demonstrate also the favorable substitution of hexamethylene diamine by piperazine. In the previous work (Ref 3) formation of a cyclic diamide in polycondensation of adipylchloride and

Card 2/6

25395 S/080/61/034/002/016/025 A057/A129

On conditions effecting the yield, ...

hexamethylenediamine was observed. Accordingly, in the present experiments a cyclic diamide (melting point 225°-226°C) was isolated from the polycondensation product of sebacylchloride and hexamethylenediamine. By co-polycendensation of caprolactam and salt AT (AG) products can be obtained which are soluble in alcohol solutions and have low melting points. In the present investigations a corresponding conclumer was obtained by phase interface polycondensation. It was observed that the properties of modified polyamides depend not only on the structure of the initial monomers, but also on other factors, particularly on the degree of destruction of structure regularities in the polyamide. In order to increase the effectiveness in decrease of the structure regularity of the copolymer, the present authors substituted caprolactam by polyamide caprone in phase interface polycondensation with hexamethylenediamine and obtained polyamides completely soluble in hot alcohol solutions. Polycondensation without mixing was carried out in the present experiments by the removal of the film formed in the phase interface of the aqueous solution containing diamine and alkali and the benzene solution containing the chloroanhydride of dicarboxylic acid. The cyclic diamide was isolated by a method

Card 3/6

25395 \$/080/61/034/002/016/025

A057/A129

On conditions effecting the yield, ...

described previously (Ref 3). Diffusion rate of the chloroanhydride was determined (cooperation of M.P. Vasil'yev and V.D. Shakhanov) by measuring the chlorine content in the aqueous phase. Polycondensation of hexamethylenediamine (I) and caproluctam (II) was carried out (cooperation A.V. Budylov) by heating 11.9 g (II) and 23.3 g (I) at 2650-270°C for 8 hrs in a sealed ampoule. Then the expess (I) was distilled off, 1.2 g of the residue was diluted in 25 ml H<sub>2</sub>O and 0.78 g NaOH was added. On the other hand 0.3 g adipylohloride (III) was dissolved in 25 ml benzene. By mixing the two solutions the polymer is precipitated with a 55.7% yield, having a melting point of 2100-215°C. The polyamide from (I) and caprone (IV) fiber was obtained by heating 2.26 g (IV) and 2.32 g (I) in a sealed ampoule at 265°C for 9 hrs. After that the excess (I) was distilled off. The following characteristics are given for the polymer obtained with (III): viscosity of the 0.5% solution in tricresol  $\eta = 0.875$ , melting point 160°C, readily soluble in 90% ethanol. There are 2 tables and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc.

SUBMITTED: June 11, 1960 Card 4/6

SHPITAL'NYY, A.S.; KHARIT, Ya.A.; KAUFICIN, Kh.Ya.

Process of polyamide formation. Part 14: Composition and structure of salts formed by dicarboxylic fatty acids and piperazine. Zhur.-ob.khim. 32 no.6: 1981-1984 Je 162. (MIRA 15:6) (Acids, Fatty) (Piperazine) (Polyamides)

\$.7080/63/036/002/019/019 .504 0 57

AUTHORS: Kharit, Ya. A., Shpital'nyy, A. S. and Sokolovskiy.

M. A.

TITLE: Preparation of copolymers based on caprone and AH

salt

PERIODICAL: Zhurnal prikladnoy khimii, v.36, no. 2, 1963, 467-468

TEXT: Continuation of earlier work (ZhPKh, 33, 1907 (1960)) which an encerned with modifying polycaprolactam by interactions with monomers of structure capable of yielding copolymers. The reaction mass was heated at 260 - 270°C, for 3 hours, under a neglition mass was heated at 260 - 270°C, for 3 hours, under a neglitic pressure, followed by 1 hour at reduced pressure; this in all highly viscous copolymers which give god films from alling the present study, the effect of deviations from these will have a copolymer properties were investigated. Polycondensitions on copolymer properties were investigated. Polycondensitions of caprone or caprolactam with AH sait over 1 to 24 hours, the figure at 3°C, with and without subsequent 1 hour heating at the temperature at 5 mm Hg, showed that:

Jard 1/2

Preparation of copolymers ...

\$/080/63/036/002/019/019 D204/D307

action had practically no effect on the specific viscosity  $\eta$ , whilst (2) the supplementary 1 hour heating at 5 mm Hg made the viscosity a function of previous duration of polycondensation — decreased with longer reaction times. Copolymers soluble in almost sould be prepared by carrying out the reactions at 265 + 100, for 3 hours, without solvent, in an inert medium, with substant heating for 1 hour at 5 mm Hg. The reserts are discussed.

SUBMITTED: June 10, 1961

Card 2/2

KHARIT, Ya.A.; SHPITAL'NYY, A.S.; SOKOLOVSKIY, M.A.

Preparation of copolymers based on capron and AG salt. Zhur.prikl.khim.
36 no.2:467-468 F '63.
(Nylon) (Polyamides)

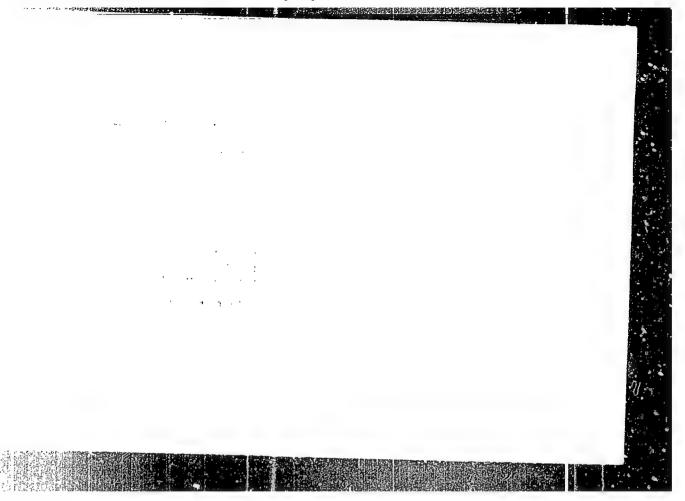
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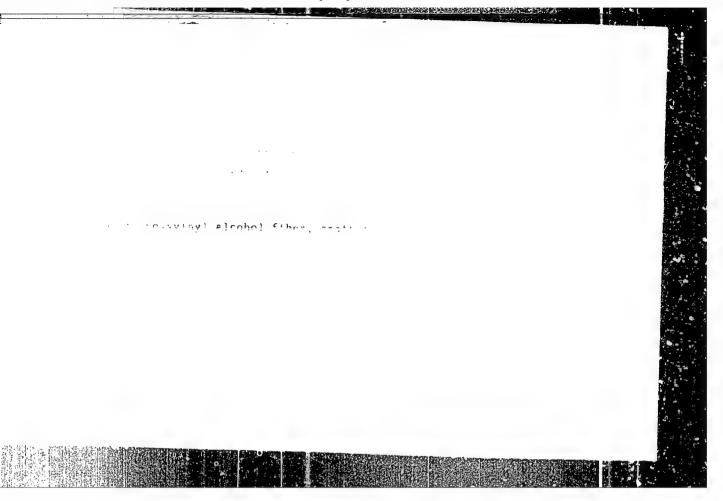
KHARIT, Ya. A.

Composition and structure of salts from diamines and dicarboxylic acids. Zhur. ob. khim. 34 no. 3:1032-1034 Mr '64. (MIRA 17:6)

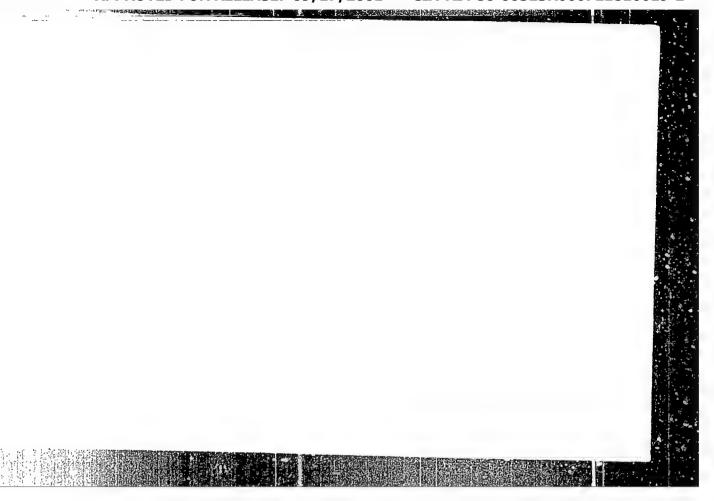
KOZLOV, Pavel Vasil'yevich, prof.; BRAGINSKIY, Gerts Irmovich, dots.; Prinimali uchastiye: SHIFRINA, V.S.; KHARIT, Ya.A.; KOROSTYLEV, B.N.; SOROKINA, R.A.; ZHERDETSKAYA, N.N., red.

[Chemistry and technology of polymer films] Khimiia i tekh-nologiia polimernykh plenok. Moskva, Iskusstvo, 1965. 623 p. (MIRA 18:7)





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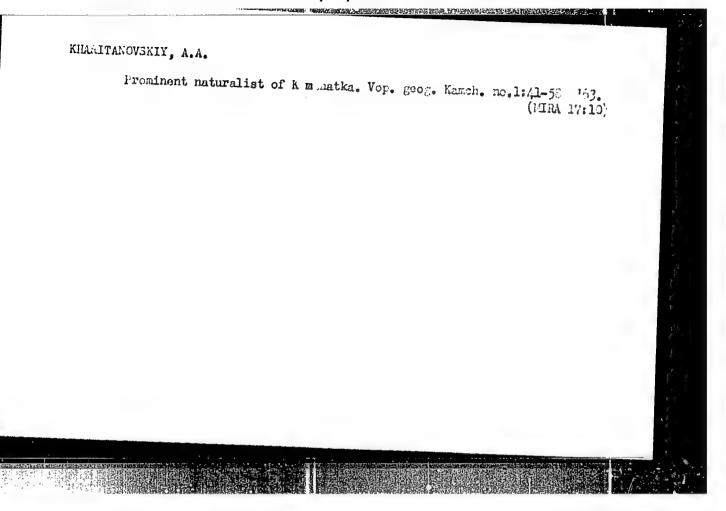


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KHARIT, Yu.A., kendidat tekhnicheskikh nauk, dotsent.

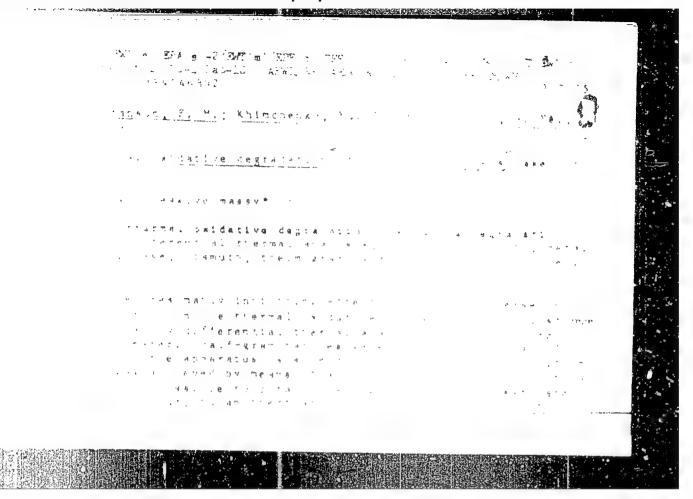
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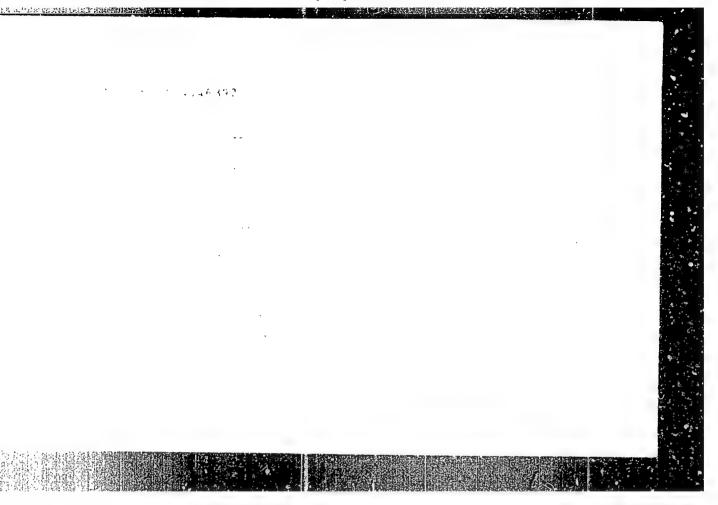
Transition line in a pipe elbow with inclined conical branch pieces. Trudy BIIZHT no.1:140-146 \*57. (MLRA 10:9) (Pipe) (Geometrical drawing)



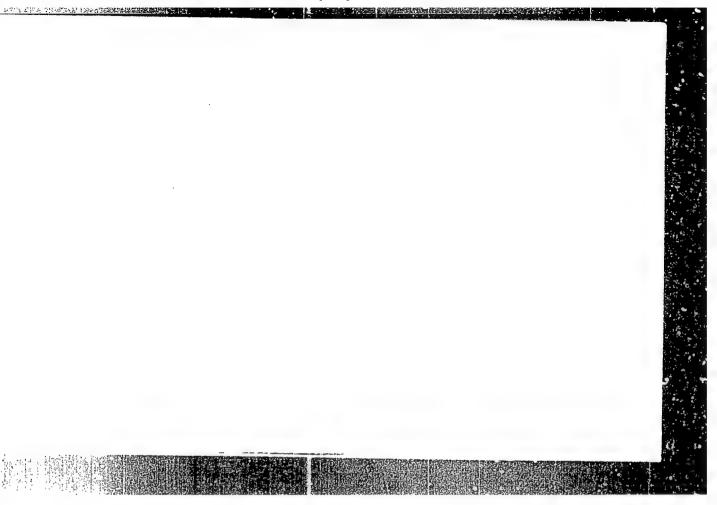
KHARITANOVSKIY, Aleksandr Aleksandrovich; DOBRONRAVOVA, K.O., red.; POLOZHENTSEVA, T.S., mlad. red.

[Man with an iron deer; tale about a forgotten feat] Chelovek s zheleznym olenem; povest' o zabitom podvige. Moskva, Mysl', 1965. 221 p. (MIRA 18:12)





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ACC NR: AT7006296

SOURCE CODE: UR/0000/66/000/000/0148/0152

AUTHOR: Kaban, A. P.; Ul'berg, Z. R.; Kharitinych, N. Ye.

ORG: none

TITLE: Study of the interaction of polystyrene molecules with highly dispersed metal

SOURCE: AN UkrSSR. Sintez i fiziko-khimiya polimerov (Synthesis and physical chemistry of polymers). Kiev, Naukova dumka, 1966, 148-152

TOPIC TAGS: metallopolymer material, polystyrene, lead, bismuth, manganese, chemical dispersion

ABSTRACT: In order to establish the nature of the interaction between polystyrene macromolecules and colloidal particles of lead, bismuth and manganese, the systems formed were studied with an EM-5 electron microscope (at a magnification of 35000), and by x-ray diffraction, and the swelling of the corresponding interaction products was determined in 30% toluene + 70% methanol. It was found that the degree of swelling of metallopolymers containing from 0.3 to 1.5% manganese and bismuth is almost one-half that of pure polystyrene. Highly dispersed lead had no effect on the swelling of polystyrene. The decrease in the degree of swelling of polystyrene is apparently due to denser packing of the macromolecules at the surface of the highly dispersed metals. An adsorptive-chemical interaction between the polymer macromole-

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KHARITON G

USSR / Soil Science. Organic Fertilizers.

J-3

Abs Jour

: Ref Zhur - Biologiya, No 16, 1958, No. 72724

Author

: Geller, I. A.; Kharitone, G.

Inst

: Not given

Title

: Effectiveness of Bacterial Fortilizers Depending on the

Cultivation of the Soils

Orig Pub

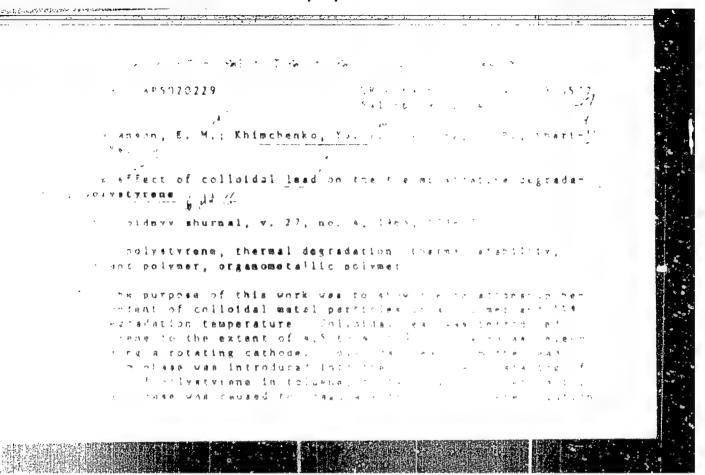
: Microbiol. zh., 1957, 19, No 4, 35-39

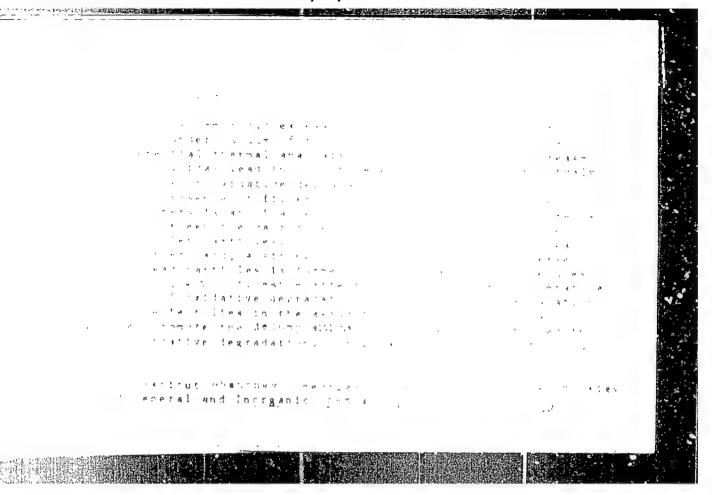
Abstract

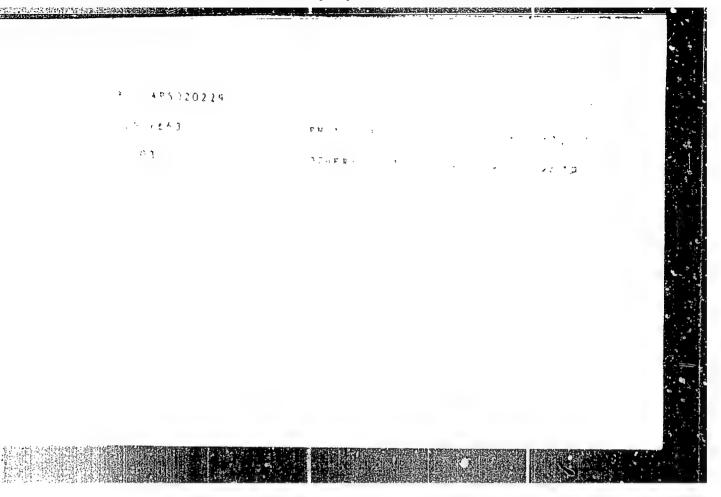
: No abstract given

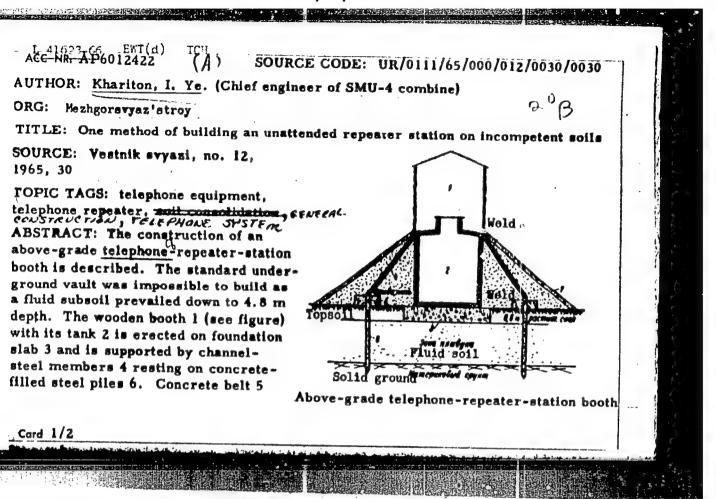
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ZASLAVSKIY, S.V., KHARITON, I.Yo.

Laying cables in rocky ground. Vest. sviazi 18 no. 8:29 Ag '58.

(MIRA 11:8)

1. Nachal'nik Direktsii stroitel'stva kabel'noy magistrali (for Zaslavskiy). 2. Glavnyy inchener Direktsii stroitel'stva kabel'noy magistrali (for Khariton)

(Telephone cables)

KHAHITON, I.Ye., inzh.

Cutting trenches in frozen ground for laying cables. Mont. i spets. rab. v stroi. 23 no.3:26-27 Mr '61. (MIRA 14:2)

1. Leningradskoye montazhnoye upravleniye tresta Promsvyaz'montazh.
(Excavating machinery—Cold weather operation)
(Electric cables)

\$/081/62/000/003/051/090 B156/B101

AUTHORS:

Shur, A. M., Khariton, Kh. Sh., Fel'dman, Ya. S.

TITLE:

Formation of gypsum polymers. I. Production of gypsum

polymers by direct introduction of a monomer

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 385-386, abstract 3K310 (Izv. Mold. fil. AN SSSR, no. 12 (78), 1960,

85-92)

TEXT: It has been found that introducing small amounts (up to 15%) of polymers soluble in water into water/gypsum mixtures greatly improves the strengths of products. The possibility of producing gypsum polymers based on Moldavian gypsum and furfuryl alcohol, with the monomer and catalyst introduced directly into the composition, was studied, also the mechanism for reaction between the gypsum and the monomer in the mixture. Specimens in the form of small cubes, their sides 4 cm, also regular octahedrons, were prepared. It was found that Moldavian gypsums containing large amounts (up to 7%) of carbonates cannot, when large amounts of acid catalyst are introduced, fully satisfy the requirements, regarding strength Card 1/2

Formation of gypsum polymers. I....

S/081/62/000/003/051/090

particulars, for the production of gypsum polymers by the direct introduction of monomer and catalyst into the mixture. Preliminary experiments showed, however, that it is still possible to use them when producing gypsum polymers in mixtures containing prepared rosins in aqueous emulsion form. [Abstracter's note: Complete translation.]

BODYU, V.I.; KHARITON, Kh.Sh.

Pulse-polarographic method for the determination of furfurole in stabilized soils. Zhur. anal. khim. 19 no.8:1021-1024 '64.

(MIRA 17:11)

1. Institut khimii AN Moldavskoy SSR, Kishinev.

ACCESSION NR: AP3001587

5/0191/63/000/006/0069/0070

AUTHOR: Matsyuk, L. L.; Khariton, Kh. Sh.; Zobov, Ye. V.

TITLE: Modification of apoxy resins with furfuryl resins

SOURCE: Plasticheskiye massy, no. 6, 1963, 69-70

TOPIC TAGS: modification of epoxy resins, furfuryl resins, physical-mechanical properties, chemical stability, epoxy resin ED-6, furfuryl resins FL-1 and FL-2

ABSTRACT: A study was made to determine if a composition could be prepared combining the high physical-mechanical properties of epoxy resins and the chemical stability of furfuryl resins. Epoxy resin ED-6 alone and in combination with furfuryl resins FL-1 and FL-2 was investigated. The chemical stability and the adhesiveness of FL-1 + ED-6 and FL-2 + ED-6 were equivalent or better than that of ED-6 alone; none of the compositions was resistant to solution by acctone or dichloreations. The furfuryl modified epoxy resins can be used instead of epoxy resin without fear of deteriorating the properties of the film or objects prepared.

.ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 01Ju163

ENCL: 00

ACCESSION MR: AP3001587
SUB CODE: 00 NO REF SOV: 005 OTHER: 001

FELIDMAN, Ya.S.; KHARITON, Ko.Sh.; EHUR, A.M.

Formation of gypaum polymers. lass. AN Mold. SSR no.10:75-80 162.

(MIHA 17:12)

LANIN, I.S.; KHARITON, M.I.; GROMOV, N.K., redaktor.

[Control of corrosion in heating networks] Opyt bor'by s korroziei v teplovykh setiakh. Pod red. N.K.Gromova. Moskva, Gos.energ.izd-vo. 1953. 51 p. (MLRA 6:10)

(Corrosion and anticorrosives) (Heating from central stations)

RMARITON, K. I.

I. C. Lenin and M. I. Khariton. Owet bor'by a horrorivey v tenlowski cetralin (Experience in Combattling Corrosion in Thermal Networks), Cocen registrate.

The booldet describes various methods of anticorrosion protection of metal of the internal curface of pipes, which were applied in the operation of the Liminergo thereal networks. Particular attention to devoted to the organization, and methods of taking observations on the intensity of corrosion of metal in hair blual sections of the filteral network.

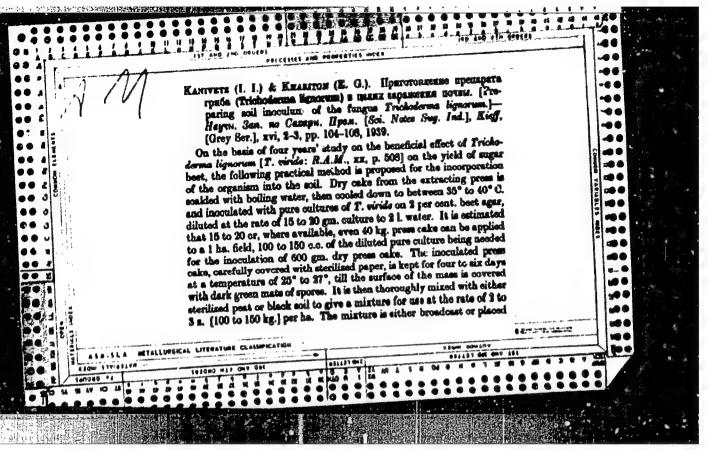
The booklet is intended for entineers, technicians, and stabhanouice-workers in the field of district leating.

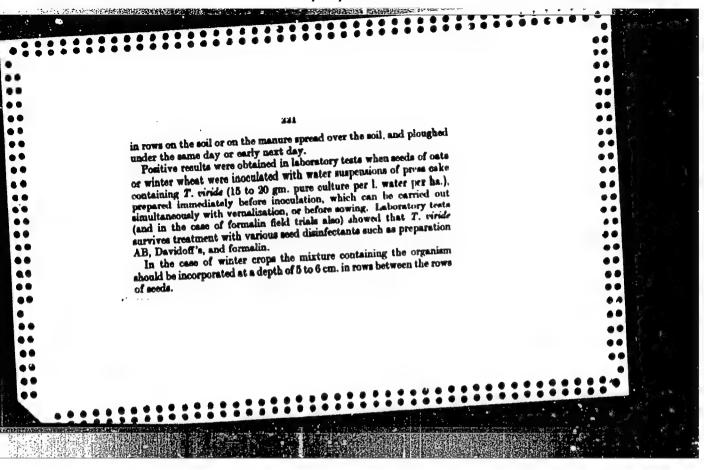
80: Sovetsking kmisi (Soviet Books), No. 183, 1953, Noscow, (U-6472)

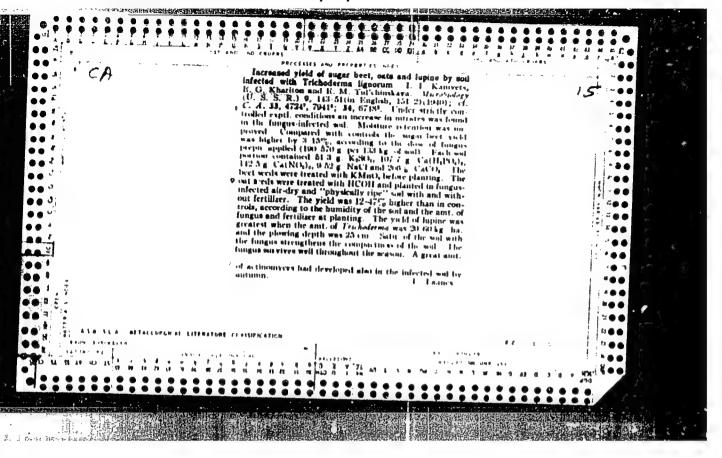
BLOKH, S.A., kand.tekhn.nauk; GUZ, D.B., inzh.; RUBASHEVSKIY, I.Ya., inzh.; BAUMAN, A.Zh., inzh.; SEN\*, Z.P., kand.tekhn.nauk; KHARITON, Ya.G., inzh.

Conveyor kiln with a walking hearth for rapid saggerless firing of porcelain. Stek. i ker. 23 no.1x29-32 Ja 166.

1. Institut gaza AN UkrSSR (for Blokh). 2. Konstruktorskoye byuro Ukrainskogo soveta narodnogo khozyaystva (for Rubashevskiy, Payman). 3. Ukrainskiy institut stekol'noy i farforo-fayansovoy promyshlennosti (for Sen', Khariton).

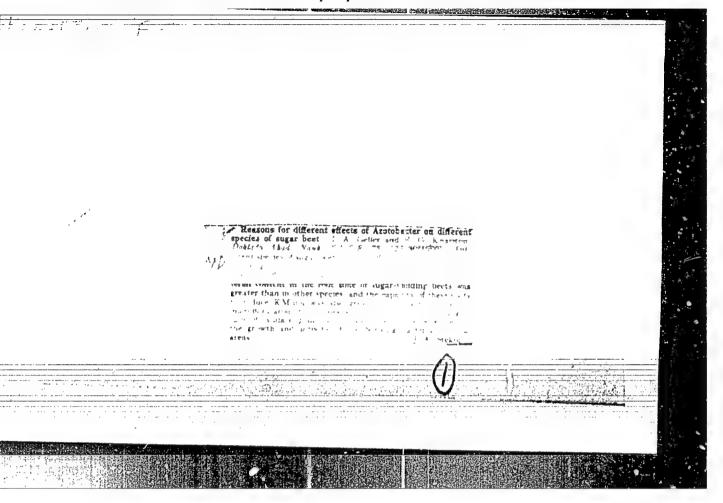






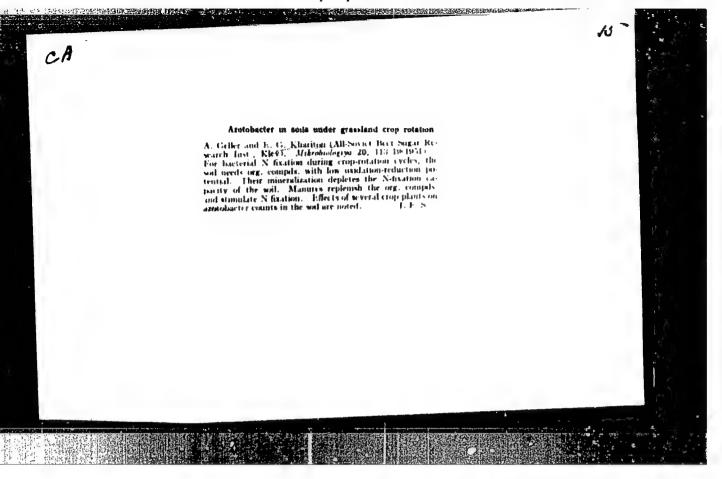
KHARITCH, Ye. G. and BILLER, I. A.

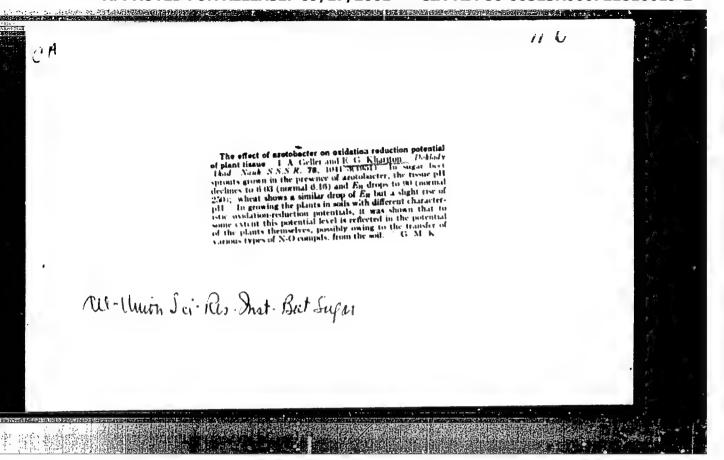
"The Influence of Oxidation-Reduction Frocesses on the Soil of the Life Activity of Azotobacter", Mikrobiol Zhur, Kiec, Vol. 12, No. 5, 17 50-59, 1950.



- 1. GELLER, I. A. and KHARITON, YE. G.
- 2. USSR (600)
- 7. "Use of Azotobacter and Other Microorganisms for Increasing the Yield and Saccharinity of the Sugar Beet", Sov. Agronomiya, No. 3, 1951, pp 65-68.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132, Unclassified.





GELER, I.A.; KHARITON, E.G.

Dynamics of Azotobacter during vegetation in some soils in beet growing districts. Mikrobiol.zhur. 14 no.3:73-77 '52. (MIRA 6:11)

1. Z Vsesogusnogo institutu tsukrovikh buryakiv m. Kiiv. (Soil microorganisms) (Microorganisms, Nitrogen-fixing)

KHARITON, E.G.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721810019

Chemical Abst. Vol. 48 No. 8 Apr. 25, 1954 Biological Chemistry Influence of azotobacterin and phosphobacterin in the nutrition of augar beet. I. A. Celler and E. G. Khariton (All-Union Inst. Sugar Beets, Kiev). Mikrobiol. Zkur., 1kad. Nauk Uhr. R.S.R. 18, No. 3, 43-8(1953) (Russian summary).—Application of azotobacterin to the seed of sugar beet increased the ammonia and nitrate N in the soil and the rate of decompn. of cellulose; it increased the mobilization of the phosphates in the 1st group (extractable with (NH<sub>4</sub>)CO<sub>4</sub>) readily available for the plant; phosphobacterin affected both 1st and 3rd (extractable with HCl) groups. The observed increase in the sugar contents with these bacteria's prepns. is obviously connected with the improved Pnutrition of the plant.

B. Gutoff

GELLER, I.A.; KHARITON, Ye.G.

Influence of tillage on the effectiveness of becterial fertilizers.
Mikrobiol. zhur. 19 no.4:35-39 '57. (MIRA 11:1)

1. Z Vaescyuznogo neukovo-doslidnogo institutu tsukovykh buryakiv.

(TILLAGE) (SOHIS--BACTERIOLOGY)

KHARITON, Ye.G.; GELLER, I.A.

Antagonistic interrelationships of some specific micro-organisms of the sugar beet [with summery in English]. Mikrobiologiia 27 no.1:95-98 Ja-F '58. (MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly, Kiyev.

(SUGAR BEETS--DISEASES AND PESTS) (BACTERIAL ANTAGONISM) (BACILLUS MESENTERICUS)

CONTROL DESCRIPTION OF THE PROPERTY OF THE PRO

GELLER, I. A.; KHARITON, Ye. G.

Effect of herbicides on soil microflora. Mikrobiologiia 30 no.3: 494-499 My-Je '61. (MIRA 15:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly, Kiyev.

(HERBICIDES) (SOILS\_MICROBIOLOGY)

GELLER, I.A. [Heller, I.A.]; KHARITON, Ye.G. [Khariton, Ye'.H.];
DOBROTYORSKAYA, O.M. [Dobrotyors ka, O.M.]

Adsorption of bacteria by the roots of plants. Mikrobiol. zhur. 25 no.3:38-42 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut sakharnoy svekly.

Desilication of water from the Neva River by filtrating it through a magnesium sorbent. Teploenergetika 8 no.4:10-11 Ap '61. (MIRA 14:8)

1. Lenenergo.

(Feed-water purification)

\*\*ONOMARRY, But., KRARIN, ha.

\*\*Practices in redent control.\* Veberlandica 41 no.11 98.97

N \*\*64.\* (MERA 18-11)

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MACHKOVSKIY, V.A.; KHARINA, V.I.

Optimum composition of the powder for reconditioning of open hearth bottoms. Hetallurg 10 no.10:21-22 0 165.

(MIRA 18:10)

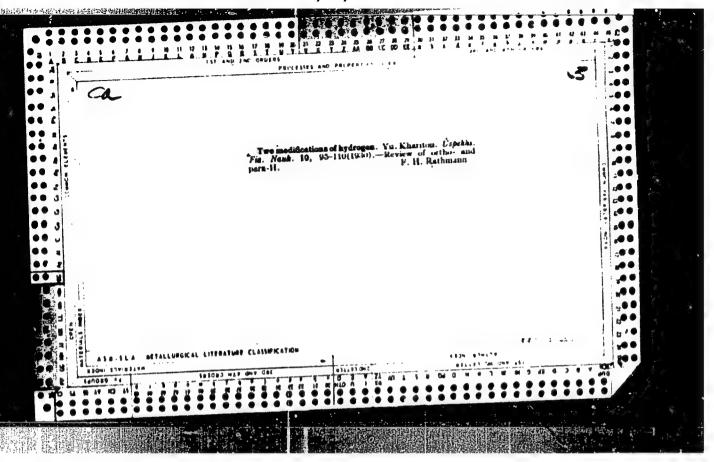
1. Makeyevskiy metallurgicheskiy zavod.

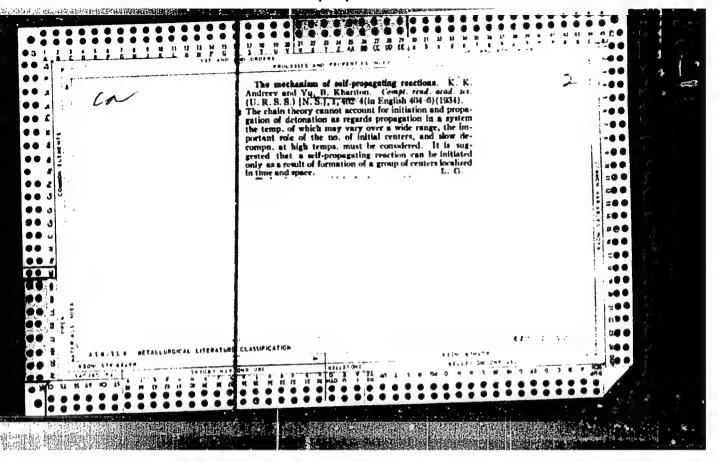
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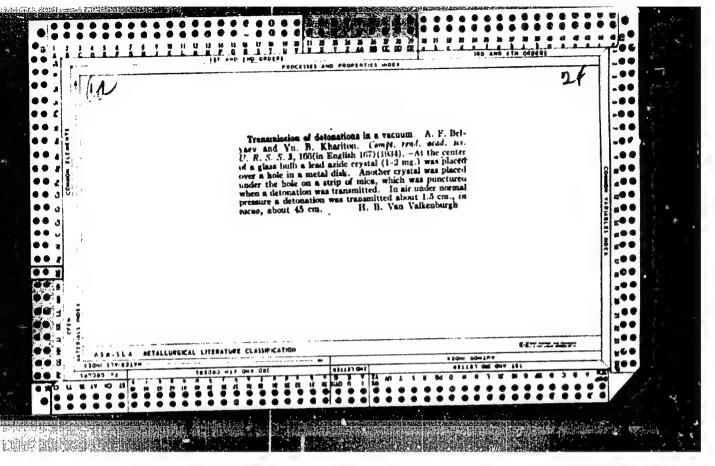
KHARISOV, R.G.

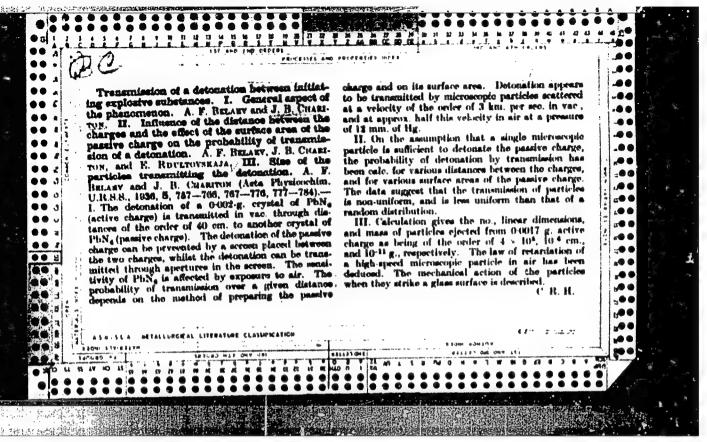
Drying lumber by commercial frequency currents. Transp.stroi. 15 no.10:51-52 0 '65. (MIRA 18:12)

1. Glavnyy inzh. tresta Ufimtransstroy.









KHARITON, Yu. B., APPIN, A. and TODES, O.

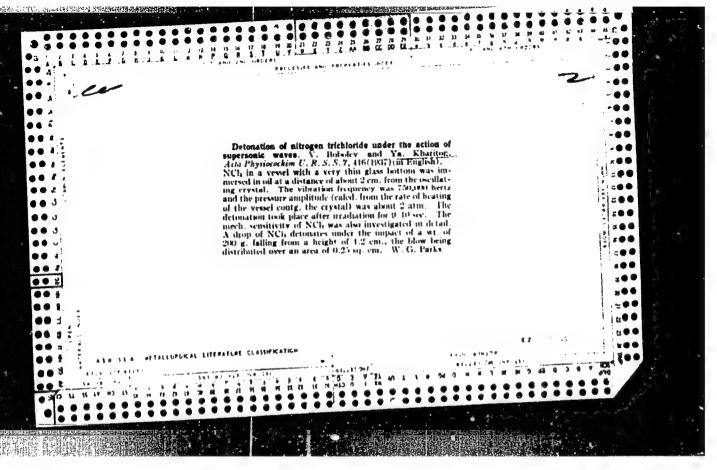
"Thermal Decomposition and Explosion of Methyl Nitrate Vapous," Zhur. Fis. Khim., 8, No.6, pp. 866-882, 1936

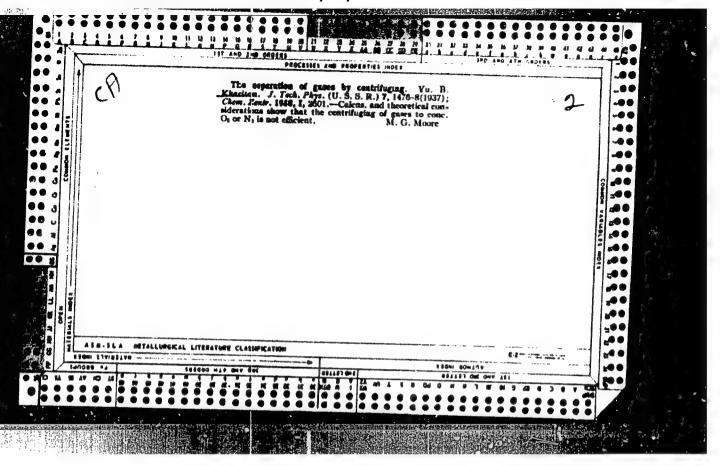
Inst. Chem. Phys., Leningrad

KHARITON, Yu. B., HELYAYEV, A. F. and RDULTOVSKAYA, E.

Another. II. Dependence of the Probability of Transmission of Detonation on the Distance Between the Charges and From the Passive Charge, Zhur. Eksper. i Teoret. Fis., No.7, pp. 191-197, 1937

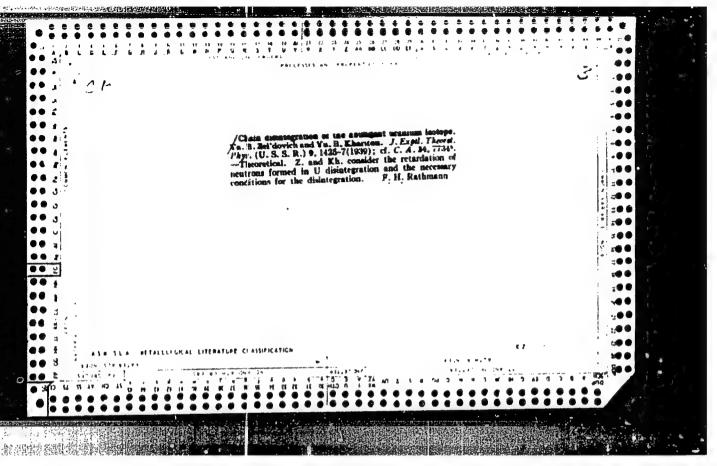
m. . III. Dimensions of the Particles Transmitting the Detonation, m ibid, pp. 198-202, 1937

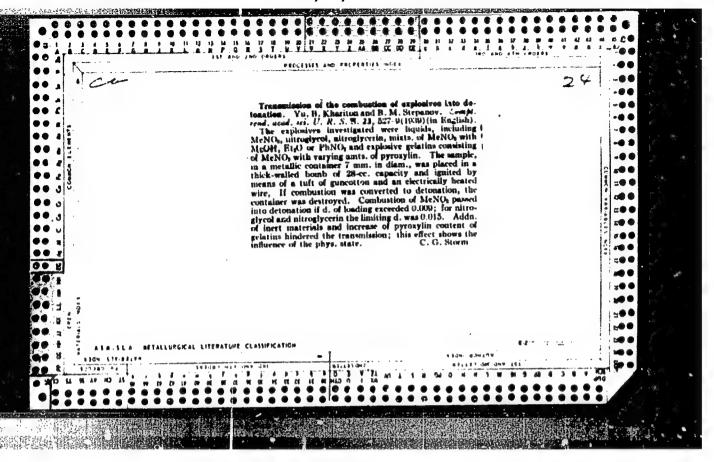


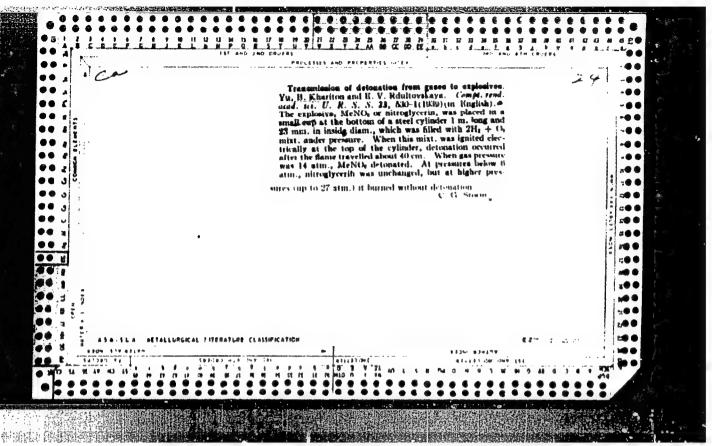


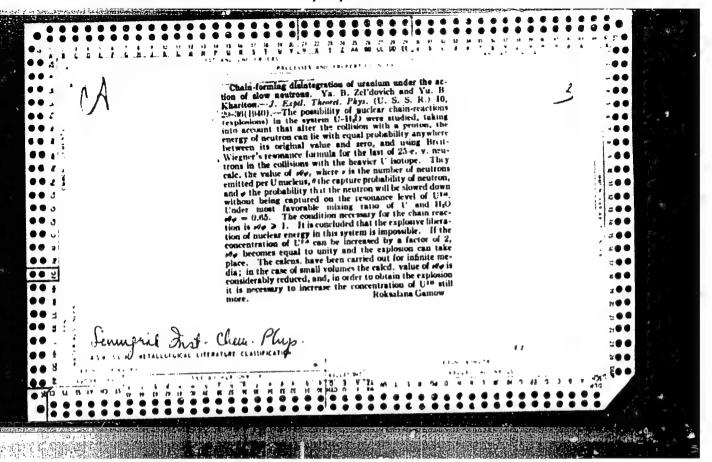
KHARITON, Yu. B., VALTER, A. F. and KONDRAT'YEV, V. N.

"Problem Book in Physics," Main Pibl. House of Tech. Theoret. Lit., Leningrad, 1938 10th edition. 123 pages.



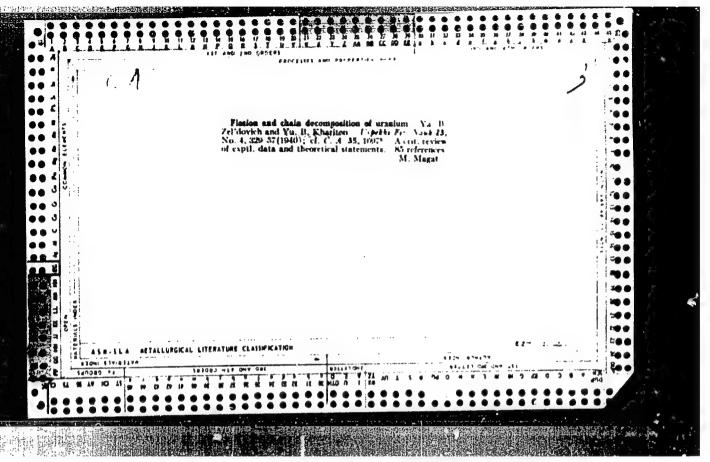






HHARITON, Yu. B. and ZEL'DOVICH, Ya. B.

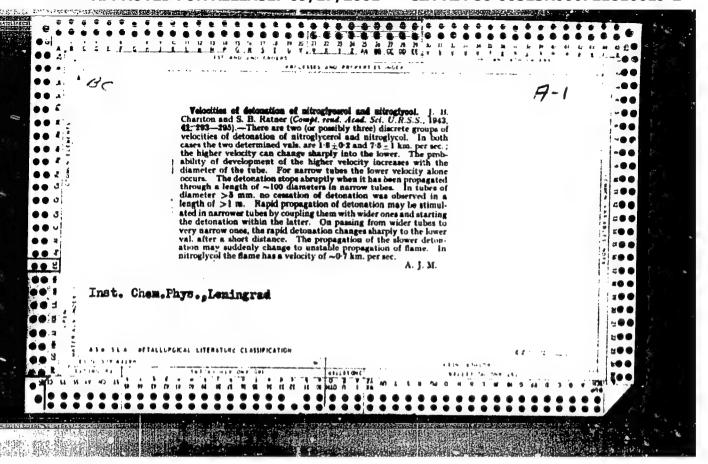
"Kinetics of Chain Decomposition of Uranius," Zhur. Eksper. i Teoret. Fiz., 10, No.5, pp 477-462, 1940



KHARITON, Yu. B. and ROZING, V.

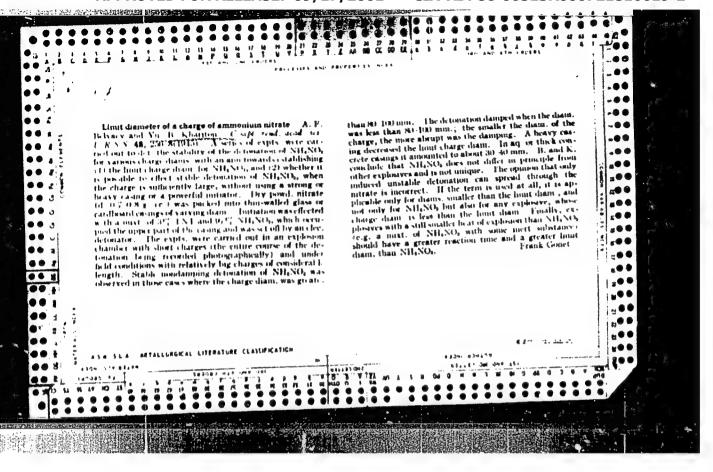
"Failure of Detonation in the Case of Explosive Charges of Small Diameter," Dokl. AN SSSR, 26, No.4, pp 360-361, 1940

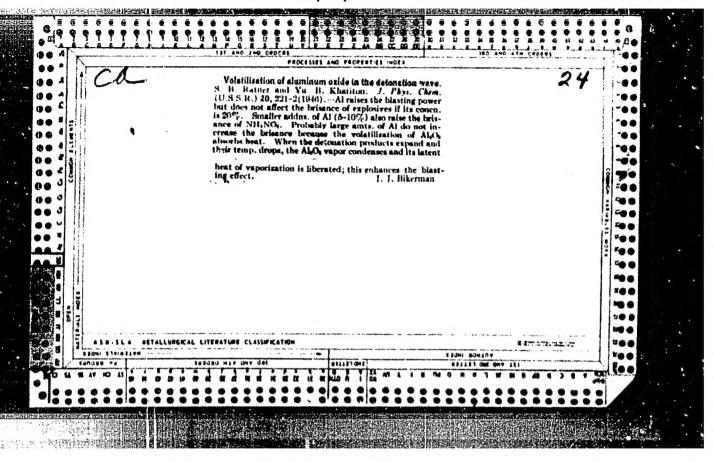
Inst. Che.Phys., Leningrad



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BELYAYEV, A. F. and KHARITON, Yu. B.

Mbr., Institute Physical Chemistry, Acad. Sci. -1944-

"The Limit Diameter of a Charge of Ammonium Nitrate," Dok. AN, 48, No. 4, 1947

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